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Approved for use through 10/31/2002. OMB 0651-0032
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UTILITY PATENT APPLICATION TRANSMITTAL

(Only for new nonprovisional applications under 37 CFR 1. 53(b))

| | |
|------------------------|---|
| Attorney Docket No. | NREL 01-36 |
| First Inventor | Shi-you Ding |
| Title | THERMAL TOLERANT AVICELASE FROM ACIDOTHERMUS CELLULOLYTICUS |
| Express Mail Label No. | EJ 200217011 US |

APPLICATION ELEMENTS

See MPEP chapter 600 concerning utility patent application contents.

ADDRESS TO: Assistant Commissioner for Patents
Box Patent Application
Washington, DC 20231

1. ☒ Fee Transmittal Form (e.g., PTO/SB/1 7)
(Submit an original and a duplicate for fee processing)
2. ☒ Applicant claims small entity status.
See 37 CFR 1.27.
3. ☒ Specification [Total Pages **43**]
(preferred arrangement set forth below)
 - Descriptive title of the invention
 - Cross Reference to Related Applications
 - Statement Regarding Fed sponsored R & D
 - Reference to sequence listing, a table, or a computer program listing appendix
 - Background of the Invention
 - Brief Summary of the Invention
 - Brief Description of the Drawings (if Red)
 - Detailed Description
 - Claim(s)
 - Abstract of the Disclosure
4. ☒ Drawing(s) (35 U.S. C. 1 13) [Total Sheets **2**]
5. Oath or Declaration [Total Pages **2**]
 - a. ☒ Newly executed (original or copy)
 - b. ☐ Copy from a prior application (37 CFR 1.63 (d))
(for continuations/divisional with Box 1 8 completed)
 1. ☐ **DELETION OF INVENTOR(S)**
Signed statement attached deleting inventor(s) named in the prior application, see 37 CFR 1.63(d)(2) and 1.33(b).
6. ☐ Application Data Sheet. See 37 CFR 1.76

7. ☐ CD-ROM or CD-R in duplicate, large table or Computer Program (Appendix)
8. Nucleotide and/or Amino Acid Sequence Submission (if applicable, all necessary)
 - a. ☐ Computer Readable Form (CRF)
 - b. Specification Sequence Listing on:
 1. ☐ CD-ROM or CD-R (2 copies); or
 11. ☐ paper
 - c. ☐ Statements verifying identity of above copies

ACCOMPANYING APPLICATION PARTS

9. ☒ Assignment Papers (cover sheet & document(s))
10. ☐ 37 CFR 3.73(b) Statement (when there is an assignee) ☐ Power of Attorney
11. ☐ English Translation Document (if applicable)
12. ☐ Information Disclosure Statement (IDS)/PTO-1449 ☐ Copies of IDS Citations
13. ☐ Preliminary Amendment
14. ☒ Return Receipt Postcard (MPEP 503) (Should be specifically itemized)
15. ☐ Certified Copy of Priority Document(s) (if foreign priority is claimed)
16. ☐ Request and Certification under 35 U.S.C. 122 (b)(2)(13)(i). Applicant must attach form PTO/SB/35 or its equivalent.
17. ☐ Other: _____

18. If a CONTINUING APPLICATION, check appropriate box, and supply the requisite information below and in a preliminary amendment, or in an Application Data Sheet under 37 CFR 1. 76.,

| | | | |
|---|-------------------------------------|---|---|
| <input type="checkbox"/> Continuation | <input type="checkbox"/> Divisional | <input type="checkbox"/> Continuation-in-part (CIP) | of prior application No.: _____ / _____ |
| Prior application information: Examiner _____ | | Group Art Unit. _____ | |

For CONTINUATION OR DIVISIONAL APPS only: The entire disclosure of the prior application, from which an oath or declaration is supplied under Box 5b, is considered a part of the disclosure of the accompanying continuation or divisional application and is hereby incorporated by reference. The incorporation can only be relied upon when a portion of the disclosure is omitted from the submitted application parts.

19. CORRESPONDENCE ADDRESS

| | | |
|---|---|--|
| <input checked="" type="checkbox"/> Customer Number or Bar Code Label | 23712 (Insert Customer No. or Attach bar code label here) | or <input type="checkbox"/> Correspondence address below |
|---|---|--|

| | | | | | | | |
|---------|--------------------------------------|-----------|--------------|----------|--------------|--|--|
| Name | Paul J. White | | | | | | |
| Address | National Renewable Energy Laboratory | | | | | | |
| | 16 17 Cole Blvd. | | | | | | |
| City | Golden | State | CO | Zip Code | 80401 | | |
| Country | USA | Telephone | 303/384-7575 | Fax | 303/384-7499 | | |

| | | | |
|-------------------|----------------------|-----------------------------------|---------------|
| Name (Print/Type) | Paul J. White | Registration No. (Attorney/Agent) | 30,436 |
| Signature | <i>Paul J. White</i> | Date | July 28, 2001 |

Burden Hour Statement: This form is estimated to take 0.2 hours to complete. Time will vary depending upon the needs of the individual case. Any comments on the amount of time you are required to complete this form should be sent to the Chief Information Officer, U.S. Patent and Trademark Office, Washington, DC 20231. DO NOT SEND FEES OR COMPLETED FORMS TO THIS ADDRESS. SEND TO: Assistant Commissioner for Patents, Box Patent Application, Washington, DC 20231.

09/17/01

PTO 09/17/01

07/28/01

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| FEE TRANSMITTAL <i>Patent fees are subject to annual revision on October 1. These are the fees effective October 1, 1997. Small Entity payments <u>must</u> be supported by a small entity statement, otherwise large entity fees must be paid. See Forms PTO/SB/09-12 See 37 C.F.R. §§ 1.27 and 1.28.</i> | | Complete if Known | |
| | | Application Number | Not Yet Accorded |
| | | Filing Date | |
| | | First Named Inventor | Shi-you Ding |
| | | Examiner Name | |
| | | Group / Art Unit | Not Yet Accorded |
| TOTAL AMOUNT OF PAYMENT (\$) 1360.00 | | Attorney Docket No. | NREL 01-36 |

| | | | | | | | |
|---|--|---|--------|-----|--------|--|--|
| METHOD OF PAYMENT (check one) | | FEE CALCULATION (continued) | | | | | |
| 1. <input checked="" type="checkbox"/> The Commissioner is hereby authorized to charge indicated fees and credit any over payments to: Deposit Account Number 14-0460 Deposit Account Name National Renewable Energy Lab. <input checked="" type="checkbox"/> Charge Any Additional Fee Required Under 37 C.F.R. §§ 1.16 and 1.17 <input type="checkbox"/> Charge the Issue Fee Set in 37 C.F.R. § 1.1 8 at the Mailing of the Notice of Allowance | | 3. ADDITIONAL FEES Large Entity Small Entity Fee Fee Fee Fee Code (\$) Code (\$) Fee Description Fee Paid | | | | | |
| 2. <input type="checkbox"/> Payment Enclosed: <input type="checkbox"/> Check <input type="checkbox"/> Money Order <input type="checkbox"/> Other | | 105 | 130 | 205 | 65 | Surcharge - late filing fee or oath | |
| FEE CALCULATION | | 127 | 50 | 227 | 25 | Surcharge - late provisional filing fee or cover sheet. | |
| 1. BASIC FILING FEE Large Entity Small Entity Fee Fee Fee Fee Code (\$) Code (\$) Fee Description Fee Paid | | 139 | 130 | 139 | 130 | Non-English specification | |
| 101 790 201 395 Utility filing fee 355.00 | | 147 | 2,520 | 147 | 2,520 | For filing a request for reexamination | |
| 106 330 206 165 Design filing fee | | 112 | 920* | 112 | 920* | Requesting publication of SIR prior to Examiner action | |
| 107 540 207 270 Plant filing fee | | 113 | 1,840* | 113 | 1,840* | Requesting publication of SIR after Examiner action | |
| 108 790 208 395 Reissue filing fee | | 115 | 110 | 115 | 55 | Extension for reply within first month | |
| 114 150 214 75 Provisional filing fee | | 116 | 400 | 216 | 200 | Extension for reply within second month | |
| SUBTOTAL (1) (\$) 355.00 | | 117 | 950 | 217 | 475 | Extension for reply within third month | |
| 2. EXTRA CLAIM FEES Total Claims 65 -20**-- 45 X \$ 9 405.00 Independent Claims 18 -3**-- 15 X \$40 600.00 Multiple Dependent | | 118 | 1,510 | 218 | 755 | Extension for reply within fourth month | |
| *or number previously paid, if greater; For Reissues, see below | | 128 | 2,060 | 228 | 1,030 | Extension for reply within fifth month | |
| Large Entity Small Entity Fee Fee Fee Fee Code (\$) Code (\$) Fee Description Fee Paid | | 119 | 310 | 219 | 155 | Notice of Appeal | |
| 103 22 203 11 Claims in excess of 20 | | 120 | 310 | 220 | 155 | Filing a brief in support of an appeal | |
| 102 82 202 41 Independent claims in excess of 3 | | 121 | 270 | 221 | 135 | Request for oral hearing | |
| 104 270 204 135 Multiple dependent claim, if not paid | | 138 | 1,510 | 138 | 1,510 | Petition to institute a public use proceeding | |
| 109 82 209 41** Reissue independent claims over original patent | | 140 | 110 | 240 | 55 | Petition to reive - unavoidable | |
| 110 22 210 11** Reissue claims in excess of 20 and over original patent | | 141 | 1,320 | 241 | 660 | Petition to reive - unintentional | |
| SUBTOTAL (2) (\$) 1005.00 | | 142 | 1,320 | 242 | 660 | Utility issue fee (or reissue) | |
| | | 143 | 450 | 243 | 225 | Design issue fee | |
| | | 144 | 670 | 244 | 335 | Plant issue too | |
| | | 122 | 130 | 122 | 130 | Petitions to the Commissioner | |
| | | 123 | 50 | 123 | 50 | Petitions related to provisional applications | |
| | | 126 | 240 | 126 | 240 | Submission of Information Disclosure Stmt | |
| | | 581 | 40 | 581 | 40 | Recording each patent assignment per property (times number of properties) | |
| | | 146 | 790 | 246 | 395 | Filing a submission after final rejection (37 CFR 1. 1 29(a)) | |
| | | 149 | 790 | 249 | 395 | For each additional invention to be examined (37 CFR 1. 1 29(b)) | |
| | | Other fee (specify) _____ | | | | | |
| | | Other fee (specify) _____ | | | | | |
| | | SUBTOTAL (3) (\$) _____ | | | | | |
| | | *Reduced by Basic Filing Fee Paid | | | | | |

| | | | |
|-----------------------|--------------------------------------|---------------------------------|----------|
| SUBMITTED BY | | Complete (if applicable) | |
| Typed or Printed Name | Paul J. White, Senior Patent Counsel | Reg. Number | 30,436 |
| Signature | <i>Paul J. White</i> | Date | 07/27/01 |
| | | Deposit Account User ID | |

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